Model Exam (1)

Question 1:

- **Answer the following:**

a- 69 – 34. 5816 = ………… ≃ ……… (to the nearest $\frac{1}{1000}$)

b- 215. 206 + 330. 692 = …………… ≃ ……………

(to the nearest hundredth)

c- The number 846.369 ≃ 846 . 4 to the nearest ……………

d- (5.7 x 3.2) – 6.24 = ……………

e- 3 ……… { 3.3 , 13 , 30 } (∈ , ∉ , ⊂ , ⊄)

f- $2\frac{3}{4} \div 1\frac{3}{8}$ = ……………

Question 2:

- **Choose the correct answer from the parentheses:**

a- A circle of radius length 7 cm, then its diameter length=………………cm

(7 – 3.5 – 14 – 10)

b- 135.42 ÷ 100 = ……………(13542 – 13.542 – 1.3542 – 1354.2)

c- The number of altitudes of any triangle………

(3 – 1 – 2 – 5)

d- $1\frac{1}{2} \div \frac{1}{4}$ = …………… (2 – 6 – $\frac{3}{8}$ – 12)

e- The smallest decimal fraction formed from the digits 5, 2, 8 and 7 is……..

(0.5782 – 0.2578 – 2.0578 – 0.8752)

Question 3:

A) **Find the area of the rectangle of 15.5 meters length and 7.5 meters width**

B) **Complete the following to have a true sentence:**

a- The longest chord in circle is called……….

b- 2.5781 ≃ ……………   (approximate to the nearest hundredth)

c- The altitudes of obtuse angled triangle intersect ……………the circle.

d- The difference between $\frac{76}{500}$ and 4.479 = ………… ≃ …………

(approximate to the nearest tenth)

Question 4:

Draw the triangle ABC where AB = 4 cm . , BC = 6 cm and CA = 8 cm, then draw a circle its center is B and its radius length is 4 cm

Complete:-

…………………is called a radius in the circle.

C) **Find the product of 23.49 × 4.2 and approximate it to the nearest hundredth.**

Question 5:

A) **A car covers equal distance in equal time. How many kilo meters does it cover in 2 hours and 15 minutes , if its speed 73.25 km per hour .**

B) **Arrange as cendingly: 0.6 , $\frac{3}{8}$, $\frac{3}{4}$, 0.8**

Model Exam (2)

Question 1:

A) Put (✓) for the true sentence and(✗) for the false one:

a- Any chord passes through the center called diameter. (   )

b- There are 2 heights in the acute angled triangle. (   )

c- $35.241 \times 100 = 3524.1$ (   )

d- $55.241 \times 100 > 552.41 \times 10$ (   )

B) Find the result in each of the following:

a- $5.7258 \times 9 =$ ……..............

(approximate to the nearest thousandth)

b- The circle with diameter length = 4cm, then the radius length=………

c- $26.274 + 23.28 =$ ……… ≃ ……… to the nearest $\frac{1}{100}$

d- $1 - 0.999 =$ ……… ≃ ……… to the nearest $\frac{1}{10}$

e- $2.5 \times 100 =$……………….

f- $\frac{6}{7}$ of $\frac{2}{3}$ =……………

g- $6\frac{1}{4} \times 2\frac{2}{5}$ =…………

h- 729.9 pounds = ...p .T

Question 2:

- **Choose the correct answer:**

a- The greatest decimal number formed from the digits 7 , 1 , 2 , 5 and 3 is …………

(7532.1 – 75.321 – 7.5321 – 0.75321)

b- If $\frac{1}{8} < \frac{1}{x} < \frac{1}{6}$ then x = ………… (7 – 5 – 4 – 6)

c- $15.76 \times$ ………… = 15760 (10 – 100 – 1000 – 10000)

d- $\frac{1}{2} \div \frac{4}{5}$ =…………….. ($\frac{4}{10}$, $\frac{5}{8}$, $\frac{2}{5}$)

e- The difference between $3\frac{17}{200}$ and 4.197 = …………

(2.102 – 1.112 – 1.211 – 2.201)

Question 3:

Draw a circle its center is m where the length of its diameter = 7 cm, then draw the diameter xy, the chord yz = 4 cm then draw xz and find its length.

B) Complete each of the following:

a- In any triangle the number of its heights =……………..

b- 2.4 dm =……………..cm.

c- $4\frac{1}{2} \div 1.5 =$ …………

d- $4\frac{1}{4} \times \frac{3}{2} =$ ....

e- $(3.7 \times 0.4) + 2.4 =$ …………

C) Given that L = 52.3723, M = 21.7494 Estimate the sum of L + M Then compare your estimation with the sum to nearest hundredths.

Question 4:

A) A family consumes 6.5 kg of meat monthly where the cost of 1 kg of meat is LE 38.5; Find what the family pays. Approximate to the nearest pound.

B) Compare:

a- 10 halves	☐	20 fifths
b- The reciprocal of $\frac{1}{2}$	☐	$\frac{6}{5} \times \frac{5}{3}$
c- 2.7×3.5	☐	0.27×35
d- 1.25×3.2	☐	32×12.5
e- $\frac{3}{8}$	☐	0.775
f- 4.82 x 10	☐	0.482 x 100

C) Arrange to descending :

$\frac{1}{2}$, $\frac{1}{4}$, 0.8 , 0.3

Model Exam (3)

Question 1:

- **Choose the correct answer from the parentheses:**

a- The smallest fraction from the following is ……

($\frac{1}{3}$ – $\frac{2}{5}$ – $\frac{5}{8}$ – $\frac{2}{9}$)

b- 572.4 cm to the nearest meter = ……

(6 – 50 – 60 – 572)

c- The decimal form of the proper fraction $\frac{3}{20}$ is ………

(0.15 – $\frac{15}{21}$ – $\frac{1}{7}$ – 0.3)

Question 2:

- **Complete the following to have a true sentence:**

a- 52.608≃…………………….. (To nearest $\frac{1}{100}$)

b- $6\frac{1}{4} \div 12\frac{1}{2}$ = …………

c- 178.15 – 9 × 3.2 = …(approximate to the nearest tenth)

d- $\frac{4}{7} < \frac{x}{7} < 1$ 50 × =……………..

Question 3:

A) **The smallest decimal fraction that includes digits (8,5,7,2) then approximate that number to the nearest thousandths.**

B) Draw Δ ABC in which AB = 6 cm BC = 8cm, AC =10 cm then draw the circle M in which $\overline{AC}$ is a diameter in it , find length of $\overline{MB}$.

Question 4:

A) **Find the perimeter of the rectangle whose length is 4.1 cm and its width is 3.5 cm. Then calculate its area.**

B) Arrange the following numbers descendingly:

$14\frac{1}{4}$, 15.025 , 14.375 , $14\frac{1}{8}$

Question 5:

A) **The price of one meter of cloth was 6.45 L.E . Find the Price of 2.4 meter from the same kind.**

B) **Draw a circle its center is M and the length of its radius = 4cm, Draw two radii** $\overline{MX}$, $\overline{My}$ **with an angle between them = 60°** , then draw XY and find its length ?

Model Exam (4)

1) **Complete the following sentences :**

a) $(7.5 \times 5.2) + 17.45 \simeq$ …………….. (to the nearest tenth)

b) 12.465 km = …………….. m

c) $\frac{7}{9} \times \frac{5}{14} =$ ………… , $\frac{2}{9} \div 8 =$ …………

d) The longest chord in the circle is called……………….

2)Choose the correct answer:

a. $75.3 \div 100 =$ ……………..

(753 , 7.53 , 7530 , 0.753)

b. The decimal form of the fraction $\frac{3}{20}$ is ……………..

(0.15 , $\frac{15}{21}$, $\frac{1}{7}$, 0.3)

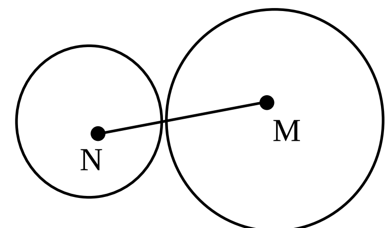
c. If the diameter of a circle M = 8cm , and AM = 7 cm , so the A lies……………the circle.

(inside – outside – on)

3)

A) In the opposite figure, there are two circles M, N , and the diameters are 4 cm, 5 cm find the length of MN.

MN=………………….



B) Arrange the following in ascending order:-

$\frac{7}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1

4) Draw a circle its center is M and the length of its radius = 2.5 cm , then draw the diameter AB , the chord AC = 3cm , then draw BC and find its length.

5) Draw Δ ABC which AB = 8cm , 6 cm and AC = 10 cm ; then draw its altitudes.

Answers
Model Exam (1)

Question 1:

a- 34.4184 ≃ 34.418
b- 545.898 ≃ 545.90
c- Tenth
d- 18.24 – 6.24 = 12
e- ∉
f- $\frac{11}{4} \div \frac{11}{8} = \frac{\cancel{11}^{1}}{4} \times \frac{8}{\cancel{11}_{1}} = \frac{8}{4} = 2$

Question 2:

a- 14
b- 1.3542
c- 3
d- 6
e- 0.2578

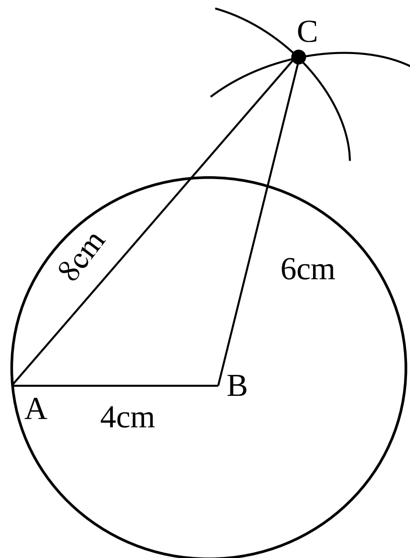
Question 3:

A) Area = L × W
= 15.5 × 7.5 = 116.25 m^2

a- diameter
b- 2.58
c- outside
d- 4.327 ≃ 4.3

Question 4:

A)



$\overline{AB}$ is radius

B) 23.49 × 4.2 = 98.658 ≃ 98.66

Question 5:

A) 2 hours and 15 minutes = $2\frac{1}{4}$ hours = 2.25 hours

The distance = 73.25 × 2.25 = 164.8125 km

B) Answers: 0.6 , 0.375 , 0.75 , 0.8

Balance : 0.6**00** , 0.375 , 0.75**0** , 0.8**00**

Arrange: 0.375 , 0.600 , 0.750 , 0.800

Model Exam (2)

Question 1:

A) a- (✓)
b- (✗)
c- (✓)
d- (✗)

B) a- $51.5322 \simeq 51.532$
b- 2cm
c- $49.554 \simeq 49.55$
d- $0.001 \simeq 0$
e- 250
f- $\frac{6}{7} \times \frac{2}{3} = \frac{12}{21} = \frac{4}{7}$
g- $6\frac{1}{4} \times 2\frac{2}{5} = \frac{\cancel{25}^{5}}{\cancel{4}} \times \frac{\cancel{12}^{3}}{\cancel{5}} = \mathbf{15}$

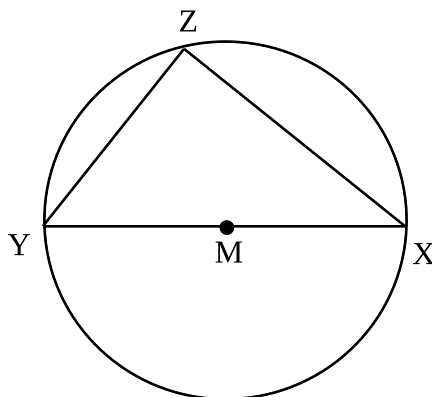
h- 728.9 x 100 = 72890 P.T

Question 2:

a- 7532.1
b- 7
c- 1000
d- $\frac{1}{2} \times \frac{5}{4} = \frac{5}{8}$
e- 1.112

Question 3:

A) $XZ = 5\frac{1}{2}$ cm





a- -3

b- 24 cm

c - $\frac{9}{2} \div \frac{15}{10} = \frac{9}{2} \times \frac{10}{15} = \frac{90}{30} = 3$

d- $\frac{51}{8}$

e-1.48 + 2.4 = 3.88

B) 21.7494 + 52.3723 = 74.1217 = 74.12

22 + 52 = 74 accept.

Question 4:

A) What the family pays = 6.5 × 38.5 = 250.25 pounds ≃ 250 pounds

B)

a- 5 > 4
b- 2 = 2
c- 9.45 = 9.45
d- 4 < 400
e- $\frac{3 \ X\ 125}{8\ x\ 125} = \frac{375}{1000} = 0.375 < 0.775$
f- 48.2 = 48.2

C) 0.8 , 0.5 , 0.3 , 0.25

Model Exam (3)

Question 1:

a- $\frac{2}{9}$
b- 6
c- 0.15

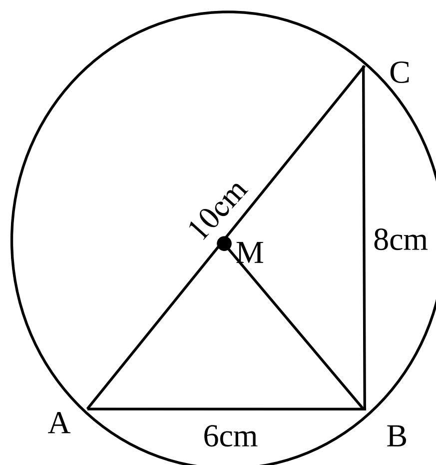
Question 2:

a- 52.61
b- $\frac{25}{4} \div \frac{25}{2} = \frac{25}{4} \times \frac{2}{25} = \frac{2}{4} = \frac{1}{2}$
c- $178.15 - 28.8 = 149.35 \simeq 149.4$

a- X = (5 , 6)

Question 3:

A) $0.2578 \simeq 0.258$



MB = 5 cm

Question 4:

A) P. = (L + W) × 2

$= (4.1 + 3.5) \times 2$

$= 7.6 \times 2 = 15.2$ cm

A $= L \times W$

$= 4.1 \times 3.5 = 14.35$ cm²

```
   41  ——→  1
 × 35  ——→  1
 -----
  205
+1230
 -----
 1435  ——→  2
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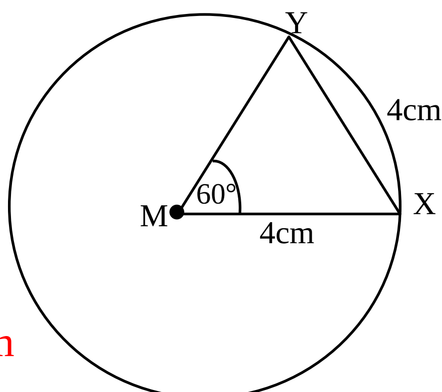
B) Answers: 14.250 , 15.025 , 14.375 , 14.125

Arrange: **15.025 , 14.375 , 14.250 , 14.125**

Question 5:

A) The total price = 6.45 x 2.4 = 15.480 L.E

```
   645  ——→  2
 ×  24  ——→  1
 ------
  2580
+ 12900
 ------
15 .480 L.E
```



XY = 4 cm

Model exam (4)

1)

a- 39+17.45=56.45≃ 56.5

b- 12465

c- $\frac{5}{18}$, $\frac{1}{36}$

d- diameter

2)

a- 0.753

b- 0.15

C- outside

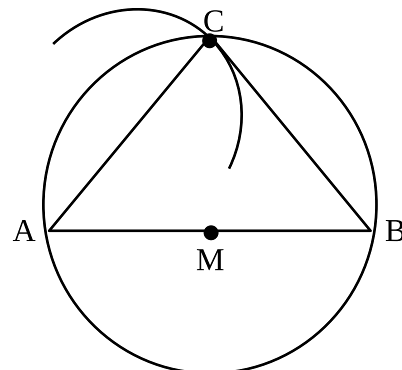
3)

a - MN = 4.5 cm

b- 0.875 , 0.500 , 1.000 , 0.750

The order: 0.500 , 0.750 , 0.875 , 1

4)



BC=4cm

5)

